

Global Diamond-SiC Composite Material Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Diamond-SiC Composite Material market size is expected to reach \$ 227 million by 2032, rising at a market growth of 34.2% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of Diamond-SiC Composite Material was approximately 3.5 tons, with a global average selling price of about USD 8,000/kg. The gross margin of major manufacturers was generally around 35%-55%.

Diamond-SiC Composite Material is a high-thermal-conductivity composite material designed for thermal management in high-power chips and advanced packaging. It is mainly composed of a high-thermal-conductivity diamond phase and a silicon carbide ceramic matrix. The material combines the extremely high thermal conductivity of diamond with the high strength, high-temperature resistance, corrosion resistance and thermal stability of silicon carbide, enabling rapid heat conduction and spreading under high-heat-flux conditions while reducing localized hotspots and thermal stress concentration in devices. Compared with traditional copper, aluminum, tungsten-copper, molybdenum-copper and conventional ceramic thermal management materials, Diamond-SiC Composite Material offers stronger advantages in thermal conductivity, thermal expansion matching, dimensional stability and high-temperature reliability, making it particularly suitable for addressing the high heat generation, limited space and strict matching challenges in high-computing-power chips, high-power semiconductors and RF devices. In China, Huanghe Whirlwind has made certain technical progress in diamond-SiC composite material. Public information indicates that its related materials have achieved thermal conductivity of over 700 W/(m·K) and a coefficient of thermal expansion as low as 2.6 ppm/°C, providing a technical foundation for expansion into high-end semiconductor thermal management materials. However, in

terms of commercialization progress, the product still appears to be mainly at the R&D validation and industrialization promotion stage, with no clear evidence of large-scale mass production or stable commercial supply. It is expected to become a potential new growth area in high-end semiconductor materials.

The downstream applications of Diamond-SiC Composite Material mainly include AI and data centers, communication and RF, automotive electrification, power and energy, semiconductor lasers, aerospace and other high-end electronic equipment fields. Among these, AI and data centers represent the most promising growth area at present. As the power consumption of AI computing chips continues to rise, heat flux density in advanced packaging increases, and SiC/GaN power devices see accelerated adoption, traditional metal and conventional ceramic materials are facing greater pressure in terms of thermal conductivity, thermal expansion matching and packaging reliability. Diamond-SiC Composite Material is therefore expected to become an important development direction for high-end thermal management materials.

This report studies the global Diamond-SiC Composite Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Diamond-SiC Composite Material and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Diamond-SiC Composite Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Diamond-SiC Composite Material total production and demand, 2021-2032, (Tons)

Global Diamond-SiC Composite Material total production value, 2021-2032, (USD Million)

Global Diamond-SiC Composite Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Diamond-SiC Composite Material consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Diamond-SiC Composite Material domestic production, consumption, key domestic manufacturers and share

Global Diamond-SiC Composite Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Diamond-SiC Composite Material production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Tons)

Global Diamond-SiC Composite Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Diamond-SiC Composite Material market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Coherent, DIASEMI, Henan Shuhui New Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Diamond-SiC Composite Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Diamond-SiC Composite Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Diamond-SiC Composite Material Market, Segmentation by Type:

Heat Sink

Thermal Substrate

Microchannel Cold Plate Component

Composite Package Housing

Global Diamond-SiC Composite Material Market, Segmentation by Thermal Conductivity Grade:

Medium-High Thermal Conductivity

High Thermal Conductivity

Ultra-High Thermal Conductivity

Global Diamond-SiC Composite Material Market, Segmentation by Application:

AI and Data Center

Communication and RF

Automotive Electrification

Power and Energy

Semiconductor Laser

Aerospace

Other

Companies Profiled:

Coherent

DIASEMI

Henan Shuhui New Materials

Key Questions Answered:

1. How big is the global Diamond-SiC Composite Material market?
2. What is the demand of the global Diamond-SiC Composite Material market?
3. What is the year over year growth of the global Diamond-SiC Composite Material market?
4. What is the production and production value of the global Diamond-SiC Composite Material market?
5. Who are the key producers in the global Diamond-SiC Composite Material market?
6. What are the growth factors driving the market demand?

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